EXECUTIVE SUMMARY

- Young Minos issues:

    - /local/stage1/minosgli temporary reprieve – need grid shared area

    - Retiring most AFS data areas, due to old hardware

- FermiMail (IMAP) migration underway Jan thru March 2012

- SLF5 migration – minos27 (builds) done Jan 19, minos25 (Condor) last

- /minos/data 93% full, should clean up or expand

- Planned outages –

    - Feb 16 (Fermigrid)

    - Feb 23 (minos25/condor, Dcache Chimera upgrade)

    - TBD – AFS upgrade to support Fermilab tokens

    - TBD – Bluearc firmware upgrade

- Control Room - System Management by FEF coming - CD DocDB 4430

- Home areas may move from AFS to Bluearc – starting planning now

GRID

- CPN - 9.1 million locks served to Minos (1.6 M NovA, 5.3 M MNV)

- Still preparing to use shared jobsub scripts

    - /grid/fermiapp/common/condor

    - Will give us access to about 100 GPCF batch slots

- Should start using the Bluearc GridFTP server for MC import.

    - UT Austin tested this

- GridFTP servers available to let you own your Grid job output files

- Local shared file support

    - OSG_WN_TMP was converted to per-job temporary areas, as originally planned

    - This removed /local/stage1

    - We had been using /local/stage1/minosgi for 3 GB shared files, for efficiency

    - Temporarily restored on GPFarm nodes, discussing long term solutions

DATA handling

- SAM Projects have been run this year only to test the SAM Station.

    - Will continue to prototype lightweight script to deliver files in a fashion similar to what was done by a SAM Project.

Enstore/DCache

- DAQ pools rebalancing was completed, all files are on disk

- We corrected file families of several files on Feb 7

    - Required use of encp v3_10e

    - 9 months of fardet_data incorrectly in 2011-01 family

    - 3K dogwood5 daikon_07 files were incorrectly in fardet_data

- DCache 'Chimera' database migration Feb 23

    - Will take about 18 hours, starting around 00:00

    - Requires client use of encp v3_10e (deployed for Minos)

    - No change to Dcache interface is required.

    - We will see the correct file sizes for files over 2 GB

    - With SLF 6.2, will be able to read/write files via NFS 4.1

NUCOMP

- Still need to test using shared 'jobsub' script

- FTP servers are deployed to allow files owned by user, not minosana

- IF Beam monitoring deployed for testing (NovA era beam monitoring)

  - Still need to compare to our beam data logging

  - http://dbweb3.fnal.gov:8080/ifbeam/app/Dash/index

FERMIMAIL

- http://computing.fnal.gov/xms/Services/Getting_Services/FermiMail

- Exchange 2010 IMAP server (not Exchange 2007)

- good browser and imap client compatibility

- Claimed excellent webmail interface

- Exchange 2007 migration delayed July → Oct (from email.fnal.gov)

- Imap1/2/3 will follow

GPCF

- Still moving to FCC, pending resolution of OracleVM 3 issues.

- minos-slf4 = minosgpvm02 runs SLF 4.7 32 bit kernel

  - Staying through May 2012, unless a security issue emerges

  - Option to extend to Aug 2012 if needed

  - 'Just In Case' we need to test SLF 4 compability

Minos Servers

- Waiting for new IF Mysql replica server (pending disk installs)

    - Much faster than minos-mysql1, which we have shut down

    - Will abandon dbmauto for farm replica, use standard Mysql replication

- SLF5 migration

    - minos27 (code build) was upgrade Jan 19, all builds now at SLF5.

    - minos25 (condor master) scheduled Feb 23, moving to a VM

    - minos-slf4 available for fallback and testing for 3 to 6 months

Minos Computing Infrastructure
Arthur Kreymer

Control Room

- System Management – to be assumed by FEF in place of John Urish

    - Evaluating multi-monitor capable workstations

    - Will move to newly installed hosts one at a time

- ReMote Shift (RMS)

    - Installed in our control room, same as remote stations

    - Installed on the minossrv-nd system at the ND

    - Being used to run everything but EVD

Near Detector Task Force

- Minerva fully engaged in hardware, not so much in software

    - Calibration

    - Batch processing

    - Data Quality

    - Data Handling

    - Simulation

    - Code maintenance

    - and more – we are just getting started